

Title (en)

Diagnosis of diseases associated with development by means of assessing their methylation status

Title (de)

Diagnose von mit Entwicklungs-Genen assoziierten Erkrankungen mittels Ermittlung ihres Methylierungszustandes

Title (fr)

Diagnose d'une maladie associée à des gènes de développement par détermination de l'état de méthylation

Publication

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Application

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Abstract (en)

[origin: US2003143606A1] The present invention relates to chemically modified genomic sequences of genes associated with the immune system, to oligonucleotides and/or PNA-oligomers directed against the sequence, for the detection of the methylation status of genes, associated with the immune system as well as to a method for ascertaining genetic and/or epigenetic parameters of genes, associated with the immune system.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [YD] WO 9928498 A2 19990610 - EPIGENOMICS GMBH [DE], et al
- [Y] DE 19905082 C1 20000518 - EPIGENOMICS GMBH [DE]
- [E] WO 0192565 A2 20011206 - EPIGENOMICS AG [DE], et al
- [AD] US 5744305 A 19980428 - FODOR STEPHEN P A [US], et al
- [A] WO 9929898 A2 19990617 - MAX PLANCK GESELLSCHAFT [DE], et al
- [XY] SEMINA E V ET AL: "CLONING AND CHARACTERIZATION OF A NOVEL BICOID-RELATED HOMEBOX TRANSCRIPTION FACTER GENE RIEG INVOLVED IN RIEGER SYNDROME", NATURE GENETICS, NEW YORK, NY, US, vol. 14, no. 4, December 1996 (1996-12-01), pages 392 - 399, XP002062612, ISSN: 1061-4036 & DATABASE GENBANK NCBI; 13 May 1998 (1998-05-13), SEMINA, E.V. ET AL.: "Homo sapiens solurshin (RGS) mRNA", XP002393422, retrieved from HTTP://WWW.NCBI.NLM.NIH.GOV Database accession no. U69961
- [PX] TOYOTA M ET AL: "Methylation profiling in acute myeloid leukemia", BLOOD, W.B.SAUNDERS COMPANY, ORLANDO, FL, US, vol. 97, no. 9, 1 May 2001 (2001-05-01), pages 2823 - 2829, XP002226261, ISSN: 0006-4971
- [A] BENDER CM ET AL.: "Roles of cell division and gene transcription in the methylation of CpG islands.", MOLECULAR AND CELLULAR BIOLOGY, vol. 19, no. 10, October 1999 (1999-10-01), pages 6690 - 6698, XP002185033
- [A] TOKUHARA M ET AL.: "Molecular cloning of the human frizzled-6", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 243, 1998, pages 622 - 627, XP002185034
- [A] DATABASE EMBL [online] EBI; 15 November 1999 (1999-11-15), WATERSTON RH: "The sequence of Homo sapiens clone", XP002185035, retrieved from HTTP://WWW.EBI.AC.UK/CGI-BIN/EMBLFETCH Database accession no. AC013731
- [A] DATABASE EMBL [online] EBI; 2 May 2000 (2000-05-02), BOECKELMANN R ET AL.: "Gene expression in psoriatic skin.", XP002185036, retrieved from HTTP://WWW.EBI.AC.UK/CGI-BIN/EMBLFETCH Database accession no. AF143346
- [AD] GRIGG G AND CLARK S: "Sequencing 5-methylcytosine residues in genomic DNA", BIOESSAYS, CAMBRIDGE, GB, vol. 16, no. 6, June 1994 (1994-06-01), pages 431 - 436, XP002106411, ISSN: 0265-9247
- [T] HAMPTON T.: "New markers may help predict prostate cancer relapse risk", JAMA THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, CHICAGO, IL, US, vol. 295, no. 19, 17 May 2006 (2006-05-17), pages 2234 - 2238, XP009070133, ISSN: 0098-7484
- [T] MARKERT-HAHN C ET AL: "Validity of DNA-methylation marker PITX2 to predict risk of recurrence in lymph node-negative hormone receptor-positive breast cancer patients: a transfer study.", BREAST CANCER RESEARCH AND TREATMENT, vol. 94, no. Suppl. 1, 2005, & 28TH ANNUAL SAN ANTONIO BREAST CANCER SYMPOSIUM; SAN ANTONIO, TX, USA; DECEMBER 08 -11, 2005, pages S57, XP009070135, ISSN: 0167-6806

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US 31145502 A 20021216; AU 7637101 A 20010629; AU 7752101 A 20010629; AU 7970701 A 20010702; AU 8391501 A 20010702; AU 8391601 A 20010702; AU 8757501 A 20010702; AU 8757601 A 20010702; AU 8961701 A 20010629; EP 0107470 W 20010629; EP 0107471 W 20010629; EP 0107472 W 20010629; EP 0107536 W 20010702; EP 0107537 W 20010702; EP 0107538 W 20010702; EP 0107539 W 20010702; EP 0107540 W 20010702; EP 01953995 A 20010629; EP 01955325 A 20010629; EP 01957909 A 20010702; EP 01962813 A 20010702; EP 01962814 A 20010702; EP 01967115 A 20010702; EP 01967116 A 20010702; EP 01969326 A 20010629;

EP 06002091 A 20010702; JP 2002507050 A 20010629; US 25716603 A 20030129; US 31150601 A 20010702; US 31150702 A 20021216;
US 83533607 A 20070807